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Mar 30, 1992

DERWENT-ACC-NO: 1993-074282  
DERWENT-WEEK: 199309  
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TITLE: Bread prodn. - involves pre-treatment of yeast suspension in electromagnetic field adding flour and remaining components, fermenting dividing and baking

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PATENT-ASSIGNEE:

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CODE

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ABSTRACTED-PUB-NO: SU 1722364A  
BASIC-ABSTRACT:

DEPT. OF AGRICULTURE

The method comprises prepn. of yeast suspension from pressed yeast and water, treating the suspension in electromagnetic field, making dough from treated suspension, flour and remaining recipe components, fermenting, sepn., proving and baking. Yeast suspension should have moisture content 90-98.75%. The treatment is conducted by placing electrodes in the yeast suspension, connecting them to generator of alternating current and creating electromagnetic field 650-700 V/m, at frequency 190-210 Hz. The duration of electromagnetic treatment is 15-30 min. The components of dough are taken in the ratio: wheat flour 300 g, pretreated yeast suspension 17-30 g saline soln. of concn. 26% 17.0 ml, and water 0.140 ml.

Tests show that the proposed method reduces duration of fermentation proving process to 245-262 min. (against 300 min. in prototype method) and increases porosity of bread to 81-87% and its specific vol. to 381-396 cc/100 g, compared to 76% and 344 cc/100 g, respectively, for bread produced using the known method.

USE/ADVANTAGE - In bread-baking industry. The method offers simple procedure, reduced cost and improved quality of bread. Bul.12/30.3. 92

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: BREAD PRODUCE PRE TREAT YEAST SUSPENSION ELECTROMAGNET FIELD ADD FLOUR REMAINING COMPONENT FERMENTATION DIVIDE BAKE

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